

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 (SOLOMONS ISLAND ROAD) AND MD 253 (MAYO ROAD) IN ANNE ARUNDEL COUNTY. IMPROVEMENTS ARE PROPOSED TO MD 253 AND THE ENTRANCE TO LEE AIRPORT (WEST LEG) TO SUPPORT THE DEVELOPMENT. VIDEO DETECTION IS PROPOSED FOR ALL PRESENCE DETECTION. ALL PROPOSED TRAFFIC SIGNAL HEADS WILL BE LED. MD 2 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC ACTUATED MODE. THE PEDESTRIAN PHASING WILL REMAIN. THE SIDE STREET PHASING WILL BE MODIFIED TO OPERATE CONCURRENTLY. THE QUEUE DETECTION WILL REMAIN. THE FIREHOUSE PRE-EMPTION WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING GROUND MOUNTED CABINET AND CONTROLLER WITH REMAIN.

THE CONTACT PERSONS FOR DISTRICT #5/OOTS ARE AS FOLLOWS:

District #5

Ms. Kim Tran
Assistant District Engineer - Traffic
Phone: 410-841-1019

Mr. Mike Huber
District Utility Engineer
Phone: 410-841-1039

Mr. John Mays
Assistant District Engineer - Maintenance
Phone: 410-841-1013

Mr. James Folden
Assistant District Engineer - Construction
Phone: 410-841-1004

Office of Traffic & Safety

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

Mr. Eugene Bailey
Chief, SHA Sign Operation
410-787-7670

The Power Company Representative Is:
Baltimore Gas & Electric
1068 N. Front Street
Baltimore, MD 21202
Phone: 1-800-265-6177

EQUIPMENT LIST 'A'

EQUIPMENT TO BE SUPPLIED BY THE SHA

CAT CODE QUANTITY DESCRIPTION

NONE

EQUIPMENT LIST 'B'

APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

800000 1 EA VIDEO DETECTION CAMERA INTERFACE (1-4 CAMERAS)

800000 35 EA LED VEHICULAR SIGNAL HEAD MODULE

800000 66 SF FURNISH AND INSTALL SHEET ALUMINUM SIGNS - MAST ARM/POLE MOUNT

1 EA - R3-5L (30"x36")

3 EA - R3-5R (30"x36")

1 EA - SHIELD ASSEMBLY (48"x75")
'SOUTH, MD 253, LEFT ARROW'

1 EA - SHIELD ASSEMBLY (30"x51")
'SOUTH, MD 253, RIGHT ARROW'

816001 4 EA VIDEO DETECTION CAMERA

816005 1 EA CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

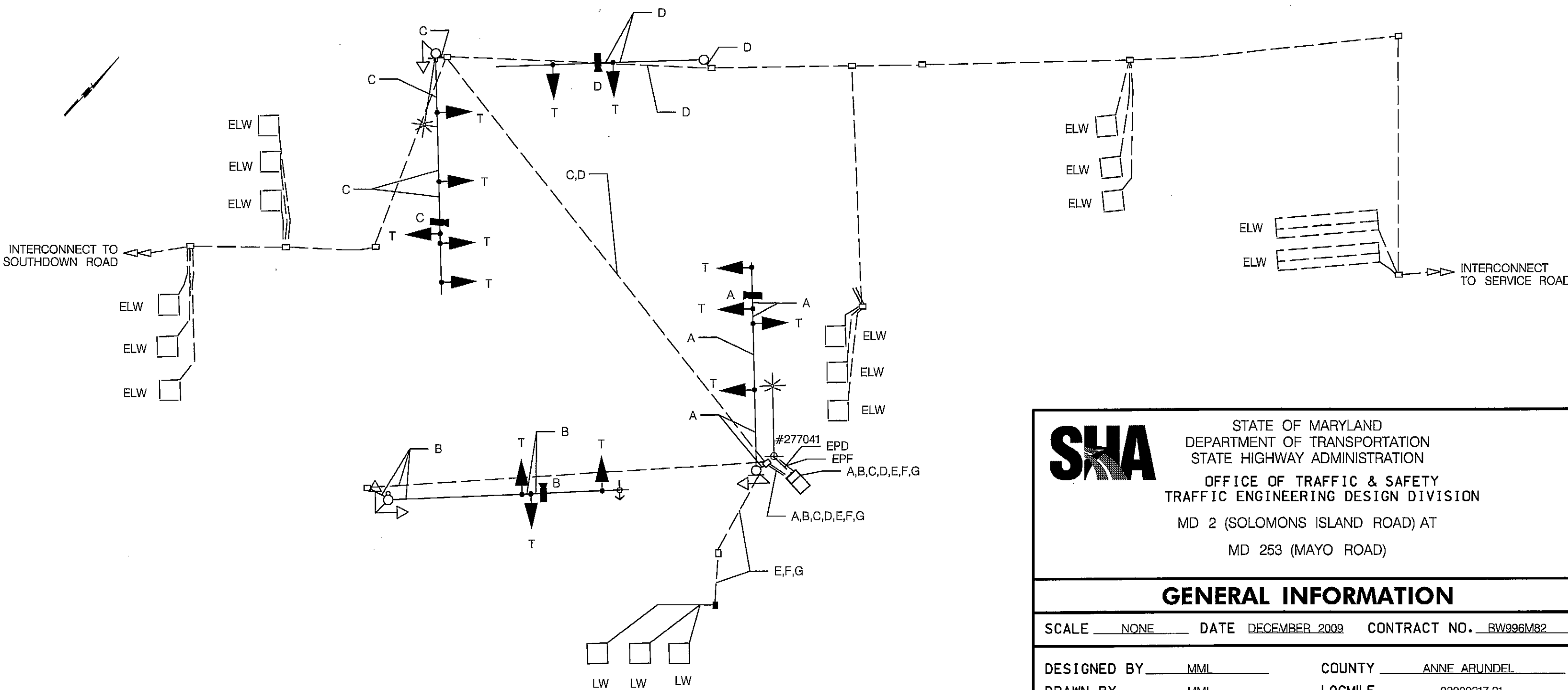
816010 2 EA CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER

860284 9 EA 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

WIRING DIAGRAM

A CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
B CAMERA TO CONTROLLER
C CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
D CAMERA TO CONTROLLER
E ELECTRICAL CABLE, 2 CONDUCTOR (ALUMINUM SHIELDED)
F USE EXISTING WIRING

EPD EXISTING PHONE DROP
EPF EXISTING POWER FEED
LW PROPOSED LOOP WIRE
ELW EXISTING LOOP WIRE



EQUIPMENT LIST 'C'

EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

CAT CODE QUANTITY DESCRIPTION

120500 1 LS MAINTENANCE OF TRAFFIC

585462 20 LF REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH

585624 75 LF 24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS

800000 1 LS REMOVE AND DISPOSE EXISTING TRAFFIC SIGNAL EQUIPMENT

805160 30 LF 1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE

811011 1 EA ELECTRICAL HANDHOLE

813006 20 SF RELOCATE SIGNS FROM EXISTING OVERHEAD STRUCTURE

822500 1 EA AS BUILT FOR SHA ON CADD

860265 3 EA RELOCATE EXISTING SIGNAL HEAD

861104 450 LF ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)

862101 375 LF LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG)

EQUIPMENT LIST 'D'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

CAT CODE QUANTITY DESCRIPTION

NONE - ALL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
PHASE 1 AND 5	←G-	←G-	R	R	←G-	←G-	←G-	R	R	R	R	R	R	R	RG→	DW	DW	DW	DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←G-	←G-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
1 CHANGE	←Y-	←Y-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 2 AND 5	←R-	←R-	R	R	←G-	←G-	←G-	G	G	R	R	R	R	R	RG→	DW	DW	DW	DW	
5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	←Y-	G	G	R	R	R	R	R	RY→	DW	DW	DW	DW	
PHASE 2 AND 6	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW	
PED CLEARANCE	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	R	FLDW	FLDW	DW	DW	
PHASE 2 AND 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	←R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	
PHASE 4 AND 8	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	G	DW	DW	DW	DW	
PHASE 4 AND 8 CHANGE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	
PHASE 4 AND 8 ALT	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	G	DW	DW	WK	WK	
PED CLEARANCE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	G	DW	DW	FLDW	FLDW	
4 AND 8 ALT CHANGE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/←R-FL/←R-	FL/Y	FL/Y	FL/Y	FL/←R-FL/←R-	FL/←R-	FL/←R-	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	
FIRE HOUSE PRE-EMPTION																				
PRE-EMPTION PHASE 4	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	G	G	G	DW	DW	DW	DW		
PRE-EMPTION CLEARANCE	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	Y	Y	Y	DW	DW	DW	DW		
PHASE 2 AND 6 NORMAL OPERATION	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	DW	DW	DW	DW		

NOTE:

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF ONE (1) YEAR. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME, THESE PLANS SHALL BE NULL AND VOID WITH A RE-REVIEW REQUIRED FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.

EAPD PERMIT NO.

LENHART TRAFFIC CONSULTING
TRAFFIC ENGINEERING & TRANSPORTATION PLANNING

331 Redwood Grove Court Millersville, Maryland 21108
Tel: (410) 987-3888 Fax: (443) 782-2288



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 2 (SOLOMONS ISLAND ROAD) AT
MD 253 (MAYO ROAD)

GENERAL INFORMATION

SCALE NONE DATE DECEMBER 2009 CONTRACT NO. BW998M82

DESIGNED BY MML COUNTY ANNE ARUNDEL
DRAWN BY MML LOGMILE 02000217.21
CHECKED BY MML T.I.M.S. NO. K010
F.A.P. NO. NA TOD NO.

DRAWING NO. TS-694-J-GI OF SHEET NO. OF

PLOTTED: WEDNESDAY, DECEMBER 09, 2009 AT 12:19 AM